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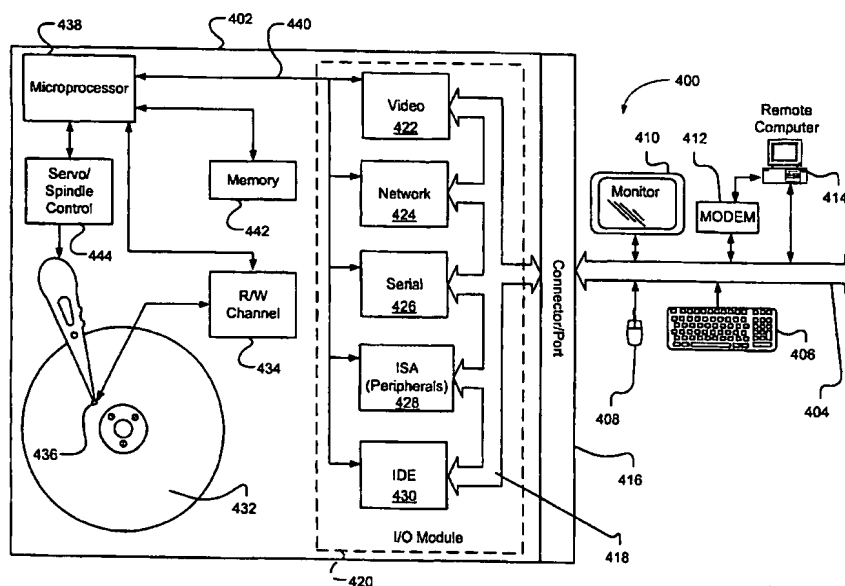
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTELLIGENT DATA STORAGE DEVICE



(57) Abstract: A data storage device (402) includes a microprocessor (438) running a general-purpose operating system including an application program. Included is memory (442) storing the operating system and application program. The data storage device (402) includes mass storage (432), is connected to a communication network (404), and an input/output module (420) communicates with a node connected to the communication network (404). The data storage device (402) is assembled in a form factor assembly not greater than three and one half (3 1/2) inches.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/26262

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B19/00 G11B19/20 G06F3/06 G06F15/173 G06F9/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 008 928 A (HITACHI ULSI SYS CO LTD ;HITACHI LTD (JP)) 14 June 2000 (2000-06-14) abstract; claims 13,14; figure 1 column 7, line 41 -column 8, line 41 ---	1,7,13
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10, 17 November 2000 (2000-11-17) & JP 2000 207138 A (RICOH CO LTD), 28 July 2000 (2000-07-28) abstract --- -/--	1-3,10, 13-15

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	<p>PATENT ABSTRACTS OF JAPAN vol. 2000, no. 13, 5 February 2001 (2001-02-05) & JP 2000 276306 A (HITACHI LTD), 6 October 2000 (2000-10-06) abstract -----</p>	<p>1-3, 10, 13-15</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1008928	A	14-06-2000	AU 2521297 A 29-10-1997
			EP 1008928 A1 14-06-2000
			TW 409240 B 21-10-2000
			CN 1218562 A 02-06-1999
			WO 9738367 A1 16-10-1997
JP 2000207138	A	28-07-2000	NONE
JP 2000276306	A	06-10-2000	NONE